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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/817,843	03/26/2001	John U. Knickerbocker	END000008US1	9394
	590 09/18/2002			
Connolly Bove Lodge & Hutz LLP P.O. Box 19088			EXAMINER	
Washington, DC 20036-3425			MALDONADO, JULIO J	
			ART UNIT	PAPER NUMBER
			2823	
		DATE MAIL ED: 00/18/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
055	09/817,843	KNICKERBOCKER ET AL.				
Office Action Summary	Examiner	Art Unit				
The MALLING DATE And	Julio J. Maldonado	2823				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet wit	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a re within the statutory minimum of thirty ill apply and will expire SIX (6) MONT	ply be timely filed (30) days will be considered timely. THS from the mailing date of this communication				
1) Responsive to communication(s) filed on 24 J	uly 2002 .					
0-10 71 4 4	s action is non-final.					
3) Since this application is in condition for allowa closed in accordance with the practice under E Disposition of Claims	nce except for formal matte Ex parte Quayle, 1935 C.D	ers, prosecution as to the merits is . 11, 453 O.G. 213.				
4)⊠ Claim(s) <u>1-34</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-34</u> are subject to restriction and/or el	ection requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed oni	s: a)∭ approved b)∭ disa	approved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.						
below of the phonty documents have been received.						
— Application No						
application from the International Burea * See the attached detailed Office action for a list of	au (PCT Rule 17.2(a)). the certified copies not rec	eived.				
14) Acknowledgment is made of a claim for domestic p	riority under 35 U.S.C. § 1	19(e) (to a provisional application)				
a) The translation of the foreign language provis 15) Acknowledgment is made of a claim for domestic p	ional application has been	received				
Attachment(s)	33					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) S. Patent and Trademark Office		mary (PTO-413) Paper No(s) mal Patent Application (PTO-152)				

Art Unit: 2823

DETAILED ACTION

- 1. The restriction mailed 06/27/2002 is withdrawn in response to applicants' arguments.
- 2. A new restriction is made as set forth in this office action.
- 3. Claim 1-34 are pending in this application.

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-3, 9, 10, 17-21 and drawn to a semiconductor device, classified in class 257, subclass 690.
 - II. Claims 4-8, 11-16 and 22-34, drawn to a method of manufacturing a semiconductor device, classified in class 438, subclass 107
- 2. Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by another and materially different process that does not include the steps of laminating a conductive foil to a major surface of a dielectric layer wherein a smooth portion contacts said major surface; applying a negative acting resist to said conductive foil; developing said resist forming openings; and etching the exposed conductive foil, wherein said etching forms a connection pad.

Conclusion

3. Papers related to this application may be submitted directly to Art Unit 2823 by facsimile transmission. Papers should be faxed to Art Unit 2823 via the Art Unit 2823 Fax Center located in Crystal Plaza 4, room 3C23. The faxing of such papers must conform to the notice published in the Official Gazette, 1096 OG 30 (15 November 1989). The Art Unit 2823 Fax Center number is (703) 305-3432. The Art Unit 2823 Fax Center is to be used only for papers related to Art Unit 2823 applications.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Julio J. Maldonado** at **(703)** 306-0098 and between the hours of 8:00 AM to 4:00 PM (Eastern Standard Time) Monday through Friday or by e-mail via <u>julio.maldonado@uspto.gov</u>. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy, can be reached on (703) 308-4918.

Any inquiry of a general nature or relating to the status of this application should be directed to the **Group 2800 Receptionist** at **(703) 308-0956**.

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'MARY E MALLER

TECHNOLOGY CENTER 2000

Julio J. Maldonado
Patent Examiner
Art Unit 2823
703-306-0098

julio.maldonado@uspto.gov